

DERWENT-ACC-NO: 1998-121013

DERWENT-WEEK: 200128

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TITLE: Copying method for magnetic recording medium - forming  
recesses and

protrusions on surface substrate of master carrier formed from  
ferromagnetic

material and bringing master into contact with recording medium

INVENTOR: ISHIDA, T; MIYATA, K ; RYONAI, H ; SUGITA, R ; TOHMA, K  
; YOSHIMOTO,

K

PATENT-ASSIGNEE: MATSUSHITA ELECTRIC IND CO LTD[MATU],

MATSUSHITA DENKI

SANGYO KK[MATU]

PRIORITY-DATA: 1997JP-0133897 (May 23, 1997) , 1996JP-0191889  
(July 22, 1996)

, 1997JP-0075703 (March 27, 1997) , 1997JP-0124257 (May 14, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	
PAGES	MAIN-IPC		
KR 2000064527	November 6, 2000	N/A	000
G11B 005/86			
A	January 29, 1998	J	099
G11B 005/86			
WO 9803972 A1	February 13, 1998	N/A	012
G11B 005/86			
JP 10040544 A	October 9, 1998	N/A	011
G11B 005/84			
JP 10269566 A	November 24, 1998	N/A	012
G11B 005/84			
JP 10312535 A	December 4, 1998	N/A	008
G11B 005/84			
JP 10320768 A	October 11, 1998	N/A	000
G11C 011/00			
TW 342495 A	May 12, 1999	E	000
G11B 005/86			
EP 915456 A1	May 12, 1999	N/A	000
G11B 005/86			

CN 1216624 A

DESIGNATED-STATES: CN KR SG US AT BE CH DE DK ES FI FR GB GR IE

IT LU MC NL PT S

E DE FR GB

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
KR2000064527A	N/A	1997WO-JP02519
July 18, 1997		
KR2000064527A	N/A	1998KR-0706392

August 17, 1998		
KR2000064527A	Based on	WO 9803972
N/A		
WO 9803972A1	N/A	1997WO-JP02519
July 18, 1997		
JP 10040544A	N/A	1996JP-0191889
July 22, 1996		
JP 10269566A	N/A	1997JP-0075703
March 27, 1997		
JP 10312535A	N/A	1997JP-0124257
May 14, 1997		
JP 10320768A	N/A	1997JP-0133897
May 23, 1997		
TW 342495A	N/A	1997TW-0110062
July 17, 1997		
EP 915456A1	N/A	1997EP-0930855
July 18, 1997		
EP 915456A1	N/A	1997WO-JP02519
July 18, 1997		
EP 915456A1	Based on	WO 9803972
N/A		
CN 1216624A	N/A	1997CN-0193995
July 18, 1997		
INT-CL (IPC): G03F007/00; G11B005/596 ; G11B005/82 ;		
G11B005/84 ;		
G11B005/86 ; G11C011/00		
ABSTRACTED-PUB-NO: WO 9803972A		
BASIC-ABSTRACT: The copying method involves forming recesses and protrusions corresponding to information signals on the surface substrate of a master carrier. Part of this surface is made of ferromagnetic material.		
The surface of the master information carrier is brought into contact with the surface of a sheet-type or disc-type magnetic recording medium with a ferromagnetic thin film or a ferromagnetic powder coating layer formed on its surface. Magnetisation patterns corresponding to the protrusions and recesses are therefore recorded on the recording medium.		
CHOSEN-DRAWING: Dwg.6/21		
DERWENT-CLASS: P84 T03		
EPI-CODES: T03-A01C1; T03-A01X; T03-A02B9; T03-A07B3A;		

DERWENT-ACC-NO: 1985-020236

DERWENT-WEEK: 198504

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TITLE: Hot pressed ceramic magnetic disc substrate - has low porosity and good

thermal expansion matching with magnetic films

INVENTOR: ENDO, J; KOIKE, Y ; YAMADA, H

PATENT-ASSIGNEE: HITACHI METALS LTD[HITK]

PRIORITY-DATA: 1983JP-0131197 (July 19, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	
PAGES	MAIN-IPC		
EP 131895 A	January 23, 1985	E	038
N/A			
DE 3462961 G	May 7, 1987	N/A	000
N/A			
EP 131895 B	April 1, 1987	E	000
N/A			
JP 60022733 A	February 5, 1985	N/A	000
N/A			
JP 87050887 B	October 27, 1987	N/A	000
N/A			

DESIGNATED-STATES: DE FR GB NL DE FR GB NL

CITED-DOCUMENTS: No-SR.Pub; GB 1257281 ; GB 1397817 ; GB 1493160 ; US 3719525

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
EP 131895A	N/A	1984EP-0108082
July 10, 1984		
JP60022733A	N/A	1983JP-0131197
July 19, 1983		

INT-CL(IPC): G11B005/82

ABSTRACTED-PUB-NO: EP 131895A

BASIC-ABSTRACT: The substrate is mfd. from Al<sub>2</sub>O<sub>3</sub> and/or ZrO<sub>2</sub> base ceramics by

hot pressing or hot isostatic pressing. It has a porosity not more than 0.1%;

a thermal expansion coefft. 70-110 x 10 power -7 deg.C. from room temp. to 400

deg.C.; and a vickers hardness not less than 1200. It pref.has an average

roughness not more than 0.01 micron and a short range undulation not more than

0.06 micron/4-mm.

ADVANTAGE - The discs have good expansion coefft. matching with magnetic films,

avoiding cracks or breakages, and high density hardness and surface precision.  
Small discs may be used with high density recording, and discs are operated with a small flying head height, e.g. 0.1 micron. The contact-stop-start durability may be over 110,000 cycles until output declines by 10%.

ABSTRACTED-PUB-NO: EP 131895B

EQUIVALENT-ABSTRACTS: The substrate is mfd. from Al<sub>2</sub>O<sub>3</sub> and/or ZrO<sub>2</sub> base ceramics by hot pressing or hot isostatic pressing. It has a porosity not more than 0.1%; a thermal expansion coefft.  $70-110 \times 10^{-7}$  power -7 deg.C. from room temp. to 400 deg.C.; and a vickers hardness not less than 1200. It pref.has an average roughness not more than 0.01 micron and a short range undulation not more than 0.06 micron/4 mm.

ADVANTAGE - The discs have good expansion coefft. matching with magnetic films, avoiding cracks or breakages, and high density hardness and surface precision.  
Small discs may be used with high density recording, and discs are operated with a small flying head height, e.g. 0.1 micron. The contact-stop-start durability may be over 110,000 cycles until output declines by 10%.

CHOSEN-DRAWING: Dwg.1/1 Dwg.1/1

DERWENT-CLASS: L02 L03 T03

CPI-CODES: L02-G07A; L03-B02B;

EPI-CODES: T03-A01B; T03-A01C; T03-N01;